Amendments to the Claims:

Please cancel claim 1 without prejudice and amend claims 4-9 and 11-13 as follows. Applicants reserve the right to prosecute claims to the canceled subject matter of claims 1, 5-9, and 11-13 in future continuation or divisional applications.

The following list of claims replaces all prior versions and represents a complete set of currently pending claims.

Listing of Claims:

- 1. (canceled)
- 2. (original) A compound represented by Formula I:

$$R_1$$
 R_2
 R_4
 R_5
 R_6
 R_6
 R_6
 R_7

wherein:

 R_1 is hydrogen or -C(O)OR_c, where R_c is an unsubstituted alkyl, unsubstituted alkenyl, or unsubstituted alkynyl group;

 R_2 is hydrogen or an alkyl, alkenyl, or heteroalkyl group, unsubstituted or substituted with one or more substituents independently selected from the group consisting of :

-O-; -NR $_d$ R $_d$; -OR $_d$; halogens; and an aryl group, unsubstituted or substituted with one or more substituents independently selected from the group consisting of:

halogens; - $C(R_d)_3$; unsubstituted alkyl, alkyl- R_d , alkenyl- R_d , and aryl groups,

where R_d is one or more substituents independently selected from the group consisting of hydrogen; unsubstituted alkyl, unsubstituted alkenyl, and unsubstituted aryl groups;

 R_3 is hydrogen or an alkyl, alkenyl, or heteroalkyl group, unsubstituted or substituted with one or more substituents independently selected from the group consisting of :

-O-; -OR_e; and, alkyl, aryl, cycloalkyl, and heteroaryl groups, unsubstituted or substituted with one or more substituents independently selected from the group consisting of:

halogens; -OH; and aryl or heteroaryl groups, substituted with one or more R_{e} substituents,

where $R_{\rm e}$ is one or more substituents independently selected from the group consisting of halogens; hydrogen; OH; unsubstituted alkyl; and aryl unsubstituted or substituted with one or more substituents independently selected from the group consisting of halogen and alkyl;

 R_4 is hydrogen or an alkyl group, unsubstituted or substituted with -OR $_{\rm f}$, where $R_{\rm f}$ is an unsubstituted alkyl group;

R₅ is hydrogen or an alkyl group;

R₆ is hydrogen or an alkyl group unsubstituted or substituted with an aryl group;

 R_4 and R_6 together with the N to which R_6 is attached cyclize to form the following compound represented by the Formula Id:

$$R_1$$
 R_2
 R_1
 R_3
 R_5
 R_5
Formula Id

wherein R_{12} and R_{13} are each independently hydrogen; and n is 1;

 R_7 is hydrogen or an alkyl, alkenyl, or aryl group, unsubstituted or substituted with an aryl group, unsubstituted or substituted with one or more halogens;

X is C or N;

Y is C;

Z is C or N; and

there is a double bond between X and the 6-membered ring and Z and the 6-membered ring; or between X and Y; or between Y and Z;

or a pharmaceutically acceptable salt, pharmaceutically acceptable prodrug, or a pharmaceutically active metabolite thereof.

3. (original) A compound according to claim 2, wherein:

R₁ is hydrogen or -C(O)O-ethyl;

 $\rm R_2$ is hydrogen, methyl, ethyl, propyl, vinyl, allyl, or benzyl, unsubstituted or substituted with one or more substituents independently selected from the group consisting of:

halogens, -O-, OH, amino, and phenyl, unsubstituted or substituted with one or more substituents selected from the group consisting of :

methyl, ethyl, phenyl, benzyl, 2-phenylethyl, 3-phenylallyl, and 2-phenylvinyl;

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 R_3 is methyl, ethyl, butyl, or benzyl, unsubstituted or substituted with one or more substituents independently selected from the group consisting of:

halogens, OH, methyl, cyclohexyl, -O-, thiadiazole, thiophenyl, and phenoxy, unsubstituted or substituted with one or more substituents independently selected from the group consisting of:

halogens, phenyl, and ethoxy;

R₄ is hydrogen, methyl or methoxymethyl;

R₅ is hydrogen or methyl;

R₆ is hydrogen, methyl, or benzyl;

 R_7 is hydrogen, methyl, benzyl, phenyl, allyl, or *tert*-butyl, unsubstituted or substituted with one or more halogens; and

 R_4 and R_6 together with the N to which R_6 attaches cyclize to form a pyrrole-2-one.

4. (currently amended) A compound according to claim 3, wherein:

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R<sub>1</sub> is hydrogen or -C(O)O-ethyl;
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R₂ is selected from

hydrogen;

hydroxymethyl;

methoxymethyl;

ethoxymethyl;

2-phenylvinyl;

3-phenylprop-1-enyl;

[(2-phenylvinyl)oxy]methyl;

dimethylaminomethyl;

benzyloxymethyl;

4-fluorobenzyl;

2-phenylvinyl;

2-phenylethyl;

3-phenylpropyl;

2-phenylethoxymethyl;

[(phenylprop-2-enyl)oxy]methyl;

[(3-phenylallyl)oxy]methyl;

methyl;

ethyl; and

allyl;

R₃ is selected from

hydrogen;

- 2.4-difluorobenzyl;
- 2,3-difluorobenzyl;
- 4-fluorobenzyl;
- 3-chloro-2,6-difluorobenzyl;
- 3-chloro-5-fluoro-2-hydroxybenzyl;
- 5-chloro-thiophen-2-ylmethyl;
- 3-chloro-2-fluorobenzyl;
- 2,3-dichlorobenzyl;
- 5-ethoxy-[1,2,3]thiadiazol-4-ylmethyl;
- 3-methyl-butyl;
- 2-cyclohexyl-ethyl;
- 2,4-difluoro-phenoxymethyl;
- 3,5-difluoro-2-hydroxybenzyl;
- 2-chloro-4-fluoro-phenoxymethyl;
- 3-chloro-5-fluoro-2-hydroxybenzyl;
- 4-fluoro-phenoxymethyl;
- 5-fluoro-2-hydroxy-benzyl;
- 2,3,4-trifluoro-phenoxymethyl;
- 3,4,5-trifluoro-2-hydroxybenzyl;
- 2-chloro-phenoxymethyl; and
- 5-chloro-2-hydroxy-benzyl;

R₄ is hydrogen, methyl or methoxymethyl;

R₅ is hydrogen or methyl;

R₆ is hydrogen, methyl, or benzyl;

R₇ is hydrogen, methyl, benzyl, phenyl, pentafluorobenzyl, allyl, or tert-butyl;

 R_4 and R_6 together with the N to which R_6 attaches cyclize to form a pyrrol-2-one.

5. (currently amended) A compound according to <u>claim 2</u> any one of claims 1-4, represented by Formula la:

$$R_1$$
 R_2
 R_4
 R_6
 R_6
Formula Ia

wherein:

X is N:

Y is C;

Z is C; and

the double bond is between Y and Z;

or a pharmaceutically acceptable salt, pharmaceutically acceptable prodrug, or a pharmaceutically active metabolite thereof.

6. (currently amended) A compound according to <u>claim 2</u> any one of claims 1-4, represented by Formula Ib:

wherein:

X is N;

Y is C;

Z is N; and

the double bond is between Y and Z;

or a pharmaceutically acceptable salt, pharmaceutically acceptable prodrug, or a pharmaceutically active metabolite thereof.

7. (currently amended) A compound according to <u>claim 2</u> any one of claims 1-4, represented by Formula Ic:

$$R_1$$
 R_2
 R_4
 R_6
 R_6
Formula Ic

wherein:

X is C;

Y is C;

Z is N; and

the double bond is between X and Y;

or a pharmaceutically acceptable salt, pharmaceutically acceptable prodrug, or a pharmaceutically active metabolite thereof.

8. (currently amended) A compound according to <u>claim 2</u> any one of claims 1-4, represented by Formula le:

$$R_1$$
 R_2
 R_4
 R_4
 R_6
 R_6
Formula Ie

wherein:

X is N:

Y is C;

Z is N; and

the double bond is between X and Y;

or a pharmaceutically acceptable salt, pharmaceutically acceptable prodrug, or a pharmaceutically active metabolite thereof.

9. (currently amended) A compound or a pharmaceutically acceptable salt according to claim 2. any one of claims 1-8.

10. (original) A compound selected from the group consisting of:

1-(2,4-Difluorobenzyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(2,4-Difluorobenzyl)-N-hydroxy-N-methyl-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(4-Fluorobenzyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(4-Fluorobenzyl)-N-hydroxy-N-methyl-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

N-Benzyl-1-(4-fluorobenzyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine -5-carboxamide;

1-(3-Chloro-2,6-difluorobenzyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(5-Chloro-thiophen-2-ylmethyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(3-Chloro-2-fluorobenzyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(2,3-Dichlorobenzyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(5-Ethoxy-[1,2,3]thiadiazol-4-ylmethyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(2,4-Difluorobenzyl)-N-hydroxy-4-methyl-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(2,4-Difluorobenzyl)-3-ethoxymethyl-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

1-(2,4-Difluorobenzyl)-N-hydroxy-3-hydroxymethyl-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;

- 1-(2,4-Difluorobenzyl)-3-dimethylaminomethyl-*N*-hydroxy-1*H*-pyrrolo[2,3-*c*]pyridine-5-carboxamide;
- 3-Benzyloxymethyl-1-(2,4-difluorobenzyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 3-(2,4-Difluorobenzyl)-N-hydroxy-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 1-(2,4-Difluorobenzyl)-N-hydroxy-1H-imidazo[4,5-c]pyridine-6-carboxamide;
- 1-(2,4-Difluorobenzyl)-3-ethoxymethyl-*N*-hydroxy-*N*-methyl-1*H*-pyrrolo[2,3-*c*]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-*N*-hydroxy-3-hydroxymethyl-*N*-methyl-1*H*-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-3-dimethylaminomethyl-*N*-hydroxy-*N*-methyl-1*H*-pyrrolo[2,3-*c*]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-N-methoxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-3-ethoxymethyl-N-methoxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-3-hydroxymethyl-N-methoxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-3-dimethylaminomethyl-*N*-methoxy-1*H*-pyrrolo[2,3-*c*]pyridine-5-carboxamide;
- N-Benzyloxy-1-(2,4-difluorobenzyl)-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- N-Benzyloxy-3-(4-fluorobenzyl)-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 3-(4-Fluorobenzyl)-N-methoxy-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 3-(4-Fluorobenzyl)-N-phenoxy-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 3-(4-Fluorobenzyl)-N-[(pentafluorobenzyl)oxy]-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- N-(Allyloxy)-3-(4-fluorobenzyl)-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- $6-(2,4-\text{Difluorobenzyl})-2-\text{hydroxy-1},\\ 6-\text{dihydrodipyrrolo}[3,2-d:3',4'-b] \text{pyridin-3}(2H)-\text{one};$
- 3-(2,3-Difluorobenzyl)-N-phenoxy-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 3-(2,3-Difluorobenzyl)-N-methoxy-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- N-Allyloxy-3-(2,3-difluorobenzyl)-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 1-(4-Fluorobenzyl)-N-phenoxy-1H-imidazo[4,5-c]pyridine-6-carboxamide;
- N-tert-Butoxy-3-(2,3-difluorobenzyl)-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- N-Methoxy-3-(3-methyl-butyl)-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 3-(3-Methyl-butyl)-N-phenoxy-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 3-(2-Cyclohexyl-ethyl)-N-phenoxy-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 3-(2-Cyclohexyl-ethyl)-N-methoxy-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- N-Allyloxy-3-(2-cyclohexyl-ethyl)-3H-imidazo[4,5-c]pyridine-6-carboxamide;
- 1-(2,4-Difluorobenzyl)-N-hydroxy-4-methoxymethyl-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-N-hydroxy-3-(2-phenylvinyl)-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-*N*-hydroxy-3-(3-phenylprop-1-enyl)-1*H*-pyrrolo[2,3-c]pyridine-5-carboxamide;

- 1-(2,4-Difluorobenzyl)-N-hydroxy-3-(2-phenylethyl)-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-N-hydroxy-3-(3-phenylpropyl)-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-*N*-hydroxy-3-{[(2-phenylethyl)oxy]methyl}-1*H*-pyrrolo[2,3-*c*]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-*N*-hydroxy-3-{[(3-phenylallyl)oxy]methyl}-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-N-hydroxy-3-methyl-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-3-ethyl-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 3-Allyl-1-(2,4-difluorobenzyl)-N-hydroxy-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- 1-(2,4-Difluorobenzyl)-N-hydroxy-7-methyl-1H-pyrrolo[2,3-c]pyridine-5-carboxamide;
- Ethyl 1-(2,4-Difluorobenzyl)-5-hydroxycarbamoyl-1H-pyrrolo[2,3-c]pyridine-2-carboxylate;
- 3-(2,4-Difluoro-phenoxymethyl)-1-ethyl-N-hydroxy-1H-pyrrolo[3,2-c]pyridine-6-carboxamide;
- 3-(3,5-Difluoro-2-hydroxybenzyl)-1-ethyl-N-hydroxy-1H-pyrrolo[3,2-c]pyridine-6-carboxamide;
- 3-(2-Chloro-4-fluoro-phenoxymethyl)-1-ethyl-N-hydroxy-1H-pyrrolo[3,2-c]pyridine-6-carboxamide;
- 3-(3-Chloro-5-fluoro-2-hydroxybenzyl)-1-ethyl-*N*-hydroxy-1*H*-pyrrolo[3,2-*c*]pyridine-6-carboxamide;
- 1-Ethyl-3-(4-fluoro-phenoxymethyl)-N-hydroxy-1H-pyrrolo[3,2-c]pyridine-6-carboxamide;
- 1-Ethyl-3-(5-fluoro-2-hydroxybenzyl)-N-hydroxy-1H-pyrrolo[3,2-c]pyridine-6-carboxamide;
- 1-Ethyl-N-hydroxy-3-(2,3,4-trifluoro-2-phenoxymethyl)-1H-pyrrolo[3,2-c]pyridine-6-carboxamide;
- 1-Ethyl-*N*-hydroxy-3-(3,4,5-trifluoro-2-hydroxybenzyl)-1*H*-pyrrolo[3,2-*c*]pyridine-6-carboxamide;
- 3-(2-Chloro-phenoxymethyl)-1-ethyl-N-hydroxy-1H-pyrrolo[3,2-c]pyridine-6-carboxamide;
- 3-(5-Chloro-2-hydroxy-benzyl)-1-ethyl-*N*-hydroxy-1*H*-pyrrolo[3,2-*c*]pyridine-6-carboxamide and pharmaceutically acceptable salts thereof.
- 11. (currently amended) A composition comprising:
 - a therapeutically effective amount of a compound or pharmaceutically acceptable salt according to claim 2 any one of claims 1-4; and
 - a pharmaceutically acceptable carrier, diluent, or vehicle therefore.
- 12. (currently amended) A method of inhibiting or modulating an enzyme activity of HIV Integrase, comprising contacting said enzyme with an effective amount of a compound, pharmaceutically acceptable salt, pharmaceutically acceptable prodrug, or pharmaceutically active metabolite as defined in <u>claim 2</u>. any one of claims 1-4.
- 13. (currently amended) A method of treating a disease or condition mediated by HIV, comprising administering to a mammal in need of such treatment a therapeutically effective amount of at least one compound, pharmaceutically acceptable salt, pharmaceutically

acceptable prodrug, or pharmaceutically active metabolite as defined in <u>claim 2.</u> any one of claims 1-4.

- 14. (original) A method of evaluating the HIV integrase modulatory activity of a test compound, comprising:
- a) immobilizing viral DNA on a surface, wherein the viral DNA has been modified to contain a CA base pair overhang at the 5' end;
 - b) adding integrase to the immobilized DNA;
 - c) adding a test compound to the immobilized viral DNA/integrase mixture;
 - d) obtaining target ds-DNA radiolabeled at both 3' ends;
- e) combining the immobilized viral DNA/integrase/compound mixture with the radiolabeled target DNA to initiate a reaction;
 - f) stopping the reaction by adding a stop buffer to the combination of (e); and
- g) reading the reaction results in a scintillation counter to determine whether the test compound modulates the activity of the integrase.
- 15. (original) The method of claim 14, wherein the surface is at least one scintillation proximity assay bead.